

1997 Chevrolet S10 Pickup

DOOR LOCKS - POWER 1997 ACCESSORIES/SAFETY EQUIP General Motors Corp. - Power Door Locks

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DESCRIPTION & OPERATION

When door lock switch is operated, all doors will lock or unlock. Each lock can also be operated manually. Locks are operated by reversible motors. Door lock switches operate to turn motors on by supplying battery voltage to one terminal and ground to the other terminal.

When either door lock switch is moved to LOCK position, it completes a circuit to the motors. Motor in each door runs to operate door locks. When door lock switch is released, circuit is opened and motors turn off. When door lock switch is moved to UNLOCK position, polarity of voltage to motors is reversed.

Door lock switches are usually closed for just a moment. If door lock switches are held closed, a circuit breaker in each motor will open to protect against damage. Circuit breakers close automatically when they cool.

TROUBLE SHOOTING

Before proceeding to **TESTING**, perform the following visual inspections:

- Check appropriate circuit breakers and fuses. If circuit breakers or fuses are blown, service and repair source of overload. Replace circuit breakers and fuses.
- Check for mechanical failures or binding linkage.
- Check for broken or partially broken wire inside insulation, which could cause system malfunction but prove good in a continuity/voltage check with system disconnected. These circuits may be intermittent or resistive when loaded. Check by monitoring voltage drop with system under load.
- Check for proper installation of aftermarket electronic equipment.

TESTING

CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See **COMPUTER RELEARN PROCEDURES** article in **GENERAL INFORMATION** before disconnecting battery.

NOTE: See appropriate wiring diagram under **WIRING DIAGRAMS** to assist in testing procedures.

DOOR LOCKS DO NOT OPERATE FROM EITHER SWITCH (EXCEPT PICKUP)

1. Disconnect left door lock switch connector. Connect a test light between connector Orange wire and ground. If test light illuminates, go to next step. If test light does not illuminate, repair open in Orange wire.

1997 Chevrolet S10 Pickup

DOOR LOCKS - POWER 1997 ACCESSORIES/SAFETY EQUIP General Motors Corp. - Power Door Locks

2. Disconnect door lock relay. Connect test light between door lock relay socket Orange wire and ground. If test light illuminates, go to next step. If test light does not illuminate, repair open in Orange wire.
3. Connect self-powered test light between door lock relay socket Black wire and ground. If test light illuminates, replace door lock relay. If test light does not illuminate, repair open in Black wire.

DOOR LOCKS DO NOT OPERATE FROM EITHER SWITCH (PICKUP)

Disconnect left door lock switch. Connect test light between door lock switch connector Orange wire and ground. If test light illuminates, repair open in Black wire. If test light does not illuminate, repair open in Orange wire.

DOOR LOCKS LOCK & UNLOCK FROM ONE SWITCH ONLY (EXCEPT PICKUP)

1. Disconnect inoperative door lock switch. Connect test light between inoperative door lock switch connector Orange wire and ground. If test light illuminates, go to next step. If test light does not illuminate, repair open in Orange wire.
2. Connect fused jumper wire between inoperative door lock switch connector Orange and Light Blue wires, and then between Orange and White wires. If doors lock and unlock, replace switch. If doors do not lock and unlock, check White and Light Blue wires for an open. Repair as necessary.

DOOR LOCKS LOCK & UNLOCK FROM ONE SWITCH ONLY (PICKUP)

Disconnect inoperative door lock switch. Connect test light between Orange wire at inoperative switch and ground. If test light illuminates, replace inoperative door lock switch. If test light does not illuminate, repair open in Orange wire.

DOOR LOCKS DO NOT LOCK (EXCEPT PICKUP)

Disconnect door lock relay. Connect fused jumper wire between door lock relay socket Light Blue and Gray wires. Connect another jumper wire between door lock relay socket Tan wire and ground. If doors lock, replace relay. If doors do not lock, repair open in Light Blue wire.

DOOR LOCKS DO NOT UNLOCK (EXCEPT PICKUP)

Disconnect door lock relay. Connect fused jumper wire between door lock relay socket White and Tan wires. Connect another jumper wire between Gray wire and ground. If doors unlock, replace relay. If doors do not unlock, repair open in White wire.

DOOR LOCKS DO NOT LOCK OR UNLOCK FROM ENDGATE PUSH BUTTON SWITCH (EXCEPT PICKUP)

1. Disconnect endgate push button switch. Connect test light between switch Orange wire and ground. If test light illuminates, go to next step. If test light does not illuminate, repair open in Orange wire.
2. Connect fused jumper wire between endgate lock switch connector Orange and White wires. If doors lock, replace endgate lock switch. If doors do not lock, repair open in Light Blue wire.
3. Connect fused jumper wire between endgate lock switch connector Orange and Light Blue wires. If doors

1997 Chevrolet S10 Pickup

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lock, replace endgate lock switch. If doors do not lock, repair open in White wire.

REMOVAL & INSTALLATION

CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See **COMPUTER RELEARN PROCEDURES** article in **GENERAL INFORMATION** before disconnecting battery.

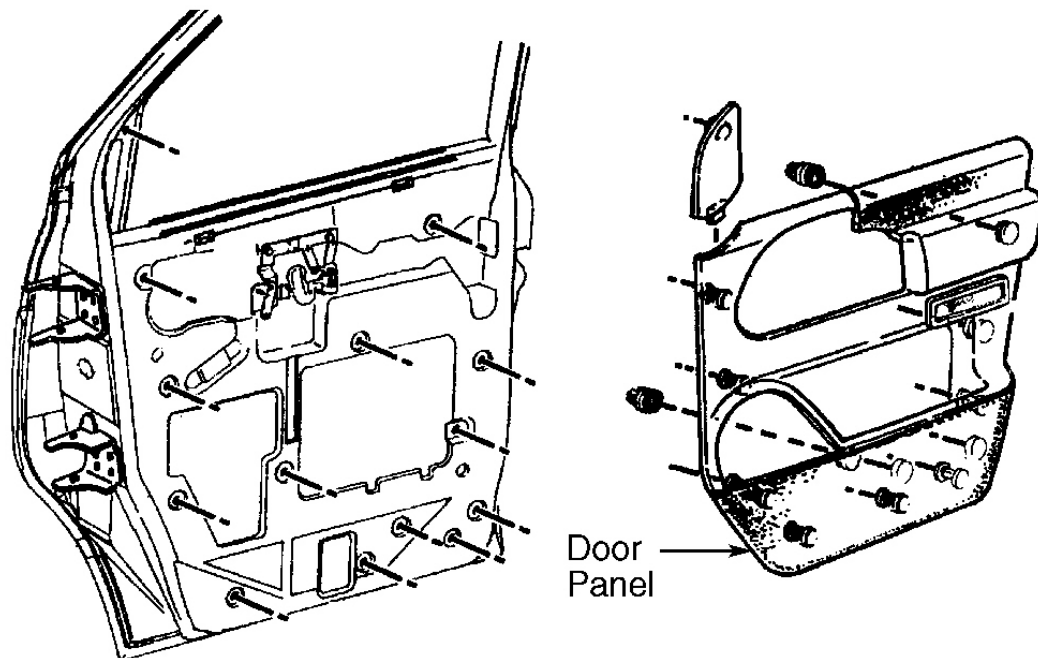
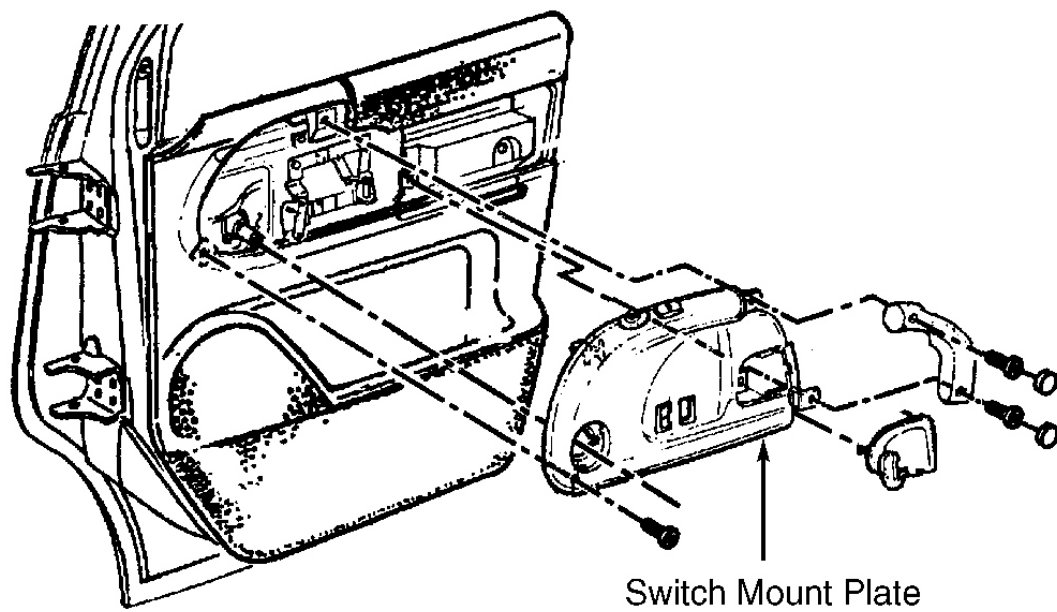
DOOR LOCK MOTOR

Removal & Installation

1. Disconnect negative battery cable. Remove 2 screws and armrest cover. Remove window crank handle (if equipped). Starting with front edge, pull out lock lever trim. Remove upper corner trim by pulling out at top edge and pivoting down to clear tab at trim panel. Remove 2 caps covering 2 assist handle screws. Remove 2 screws retaining handle to door.
2. Remove screw at front edge of accessory switch mount plate (if equipped). Remove plate from trim panel. Remove electrical connectors from switches on plate. Remove door courtesy light assembly from door panel. Remove trim panel retainers from door. Remove trim panel. See **Fig. 1** . Remove lock rods from door lock motor. Remove screws or drill out rivets and remove door lock motor. See **Fig. 2** and **Fig. 3** . To install, reverse removal procedure.

1997 Chevrolet S10 Pickup

DOOR LOCKS - POWER 1997 ACCESSORIES/SAFETY EQUIP General Motors Corp. - Power Door Locks

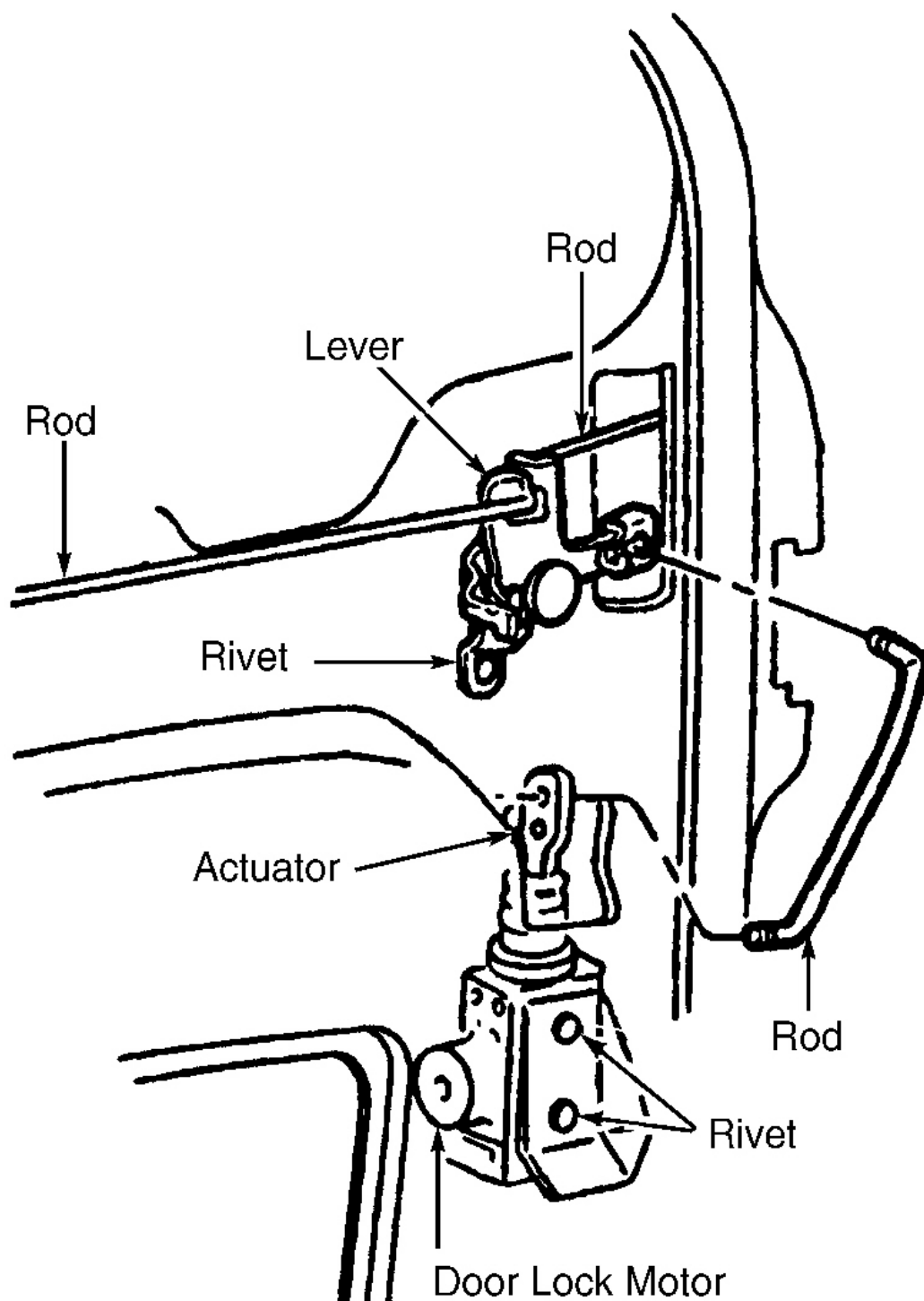


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Fig. 1: Removing Switch Mount Plate & Door Panel (Typical)
Courtesy of GENERAL MOTORS CORP.

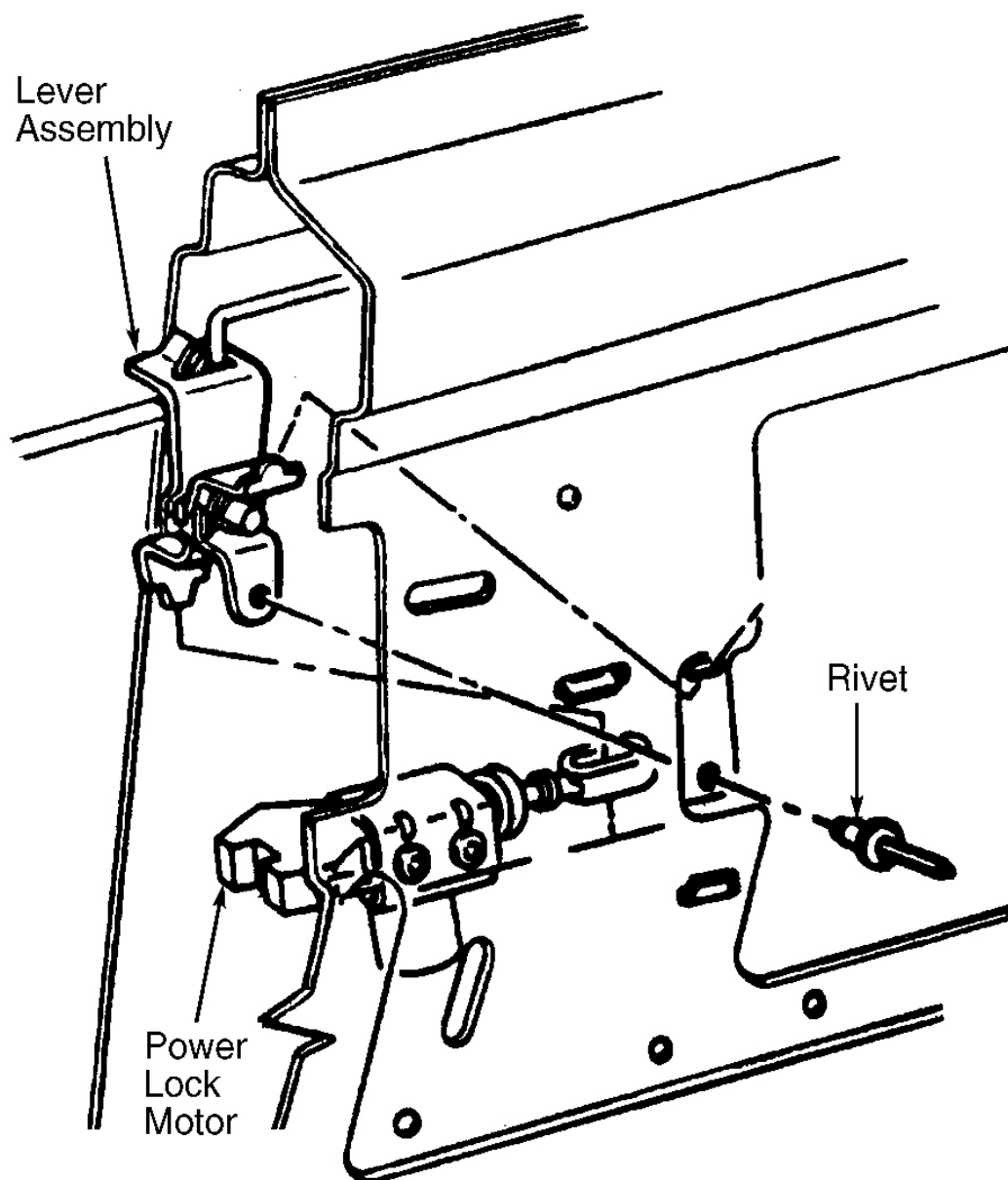
1997 Chevrolet S10 Pickup

DOOR LOCKS - POWER 1997 ACCESSORIES/SAFETY EQUIP General Motors Corp. - Power Door Locks



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Fig. 2: Removing Front Door Lock Motor (Typical)
Courtesy of GENERAL MOTORS CORP.



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Fig. 3: Removing Side Door Lock Motor (Typical)
Courtesy of GENERAL MOTORS CORP.

DOOR LOCK SWITCH

1997 Chevrolet S10 Pickup

DOOR LOCKS - POWER 1997 ACCESSORIES/SAFETY EQUIP General Motors Corp. - Power Door Locks

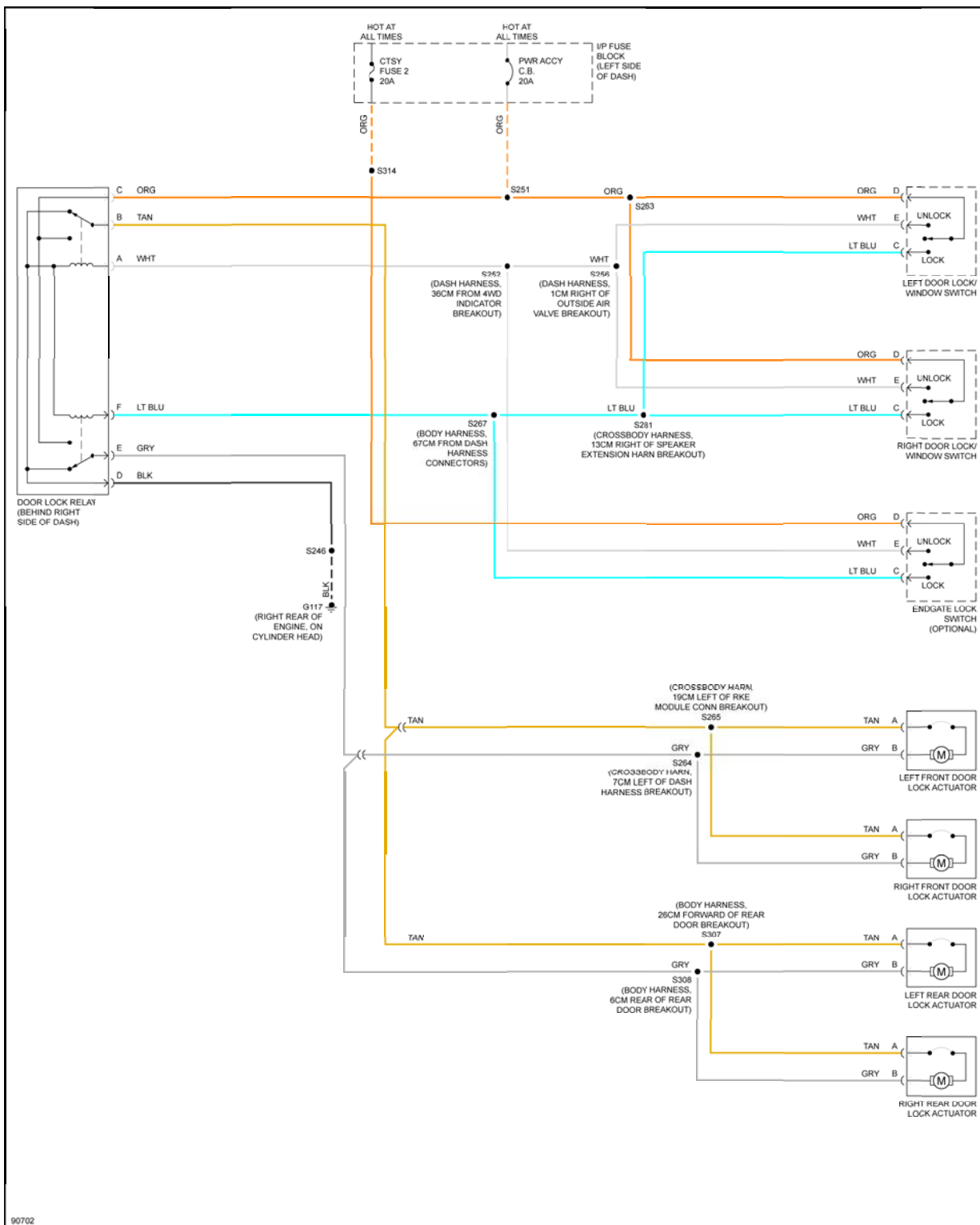
Removal & Installation

Disconnect negative battery cable. Remove screw at front edge of accessory switch mount plate (if equipped). Using a flat-blade screwdriver, remove plate from trim panel. Press tabs and remove front door switch mount plate. Carefully bend retaining tabs outward while pushing switch out of bezel. Disconnect power door lock switch wiring connector. Remove power door lock switch. To install, reverse removal procedures.

WIRING DIAGRAMS

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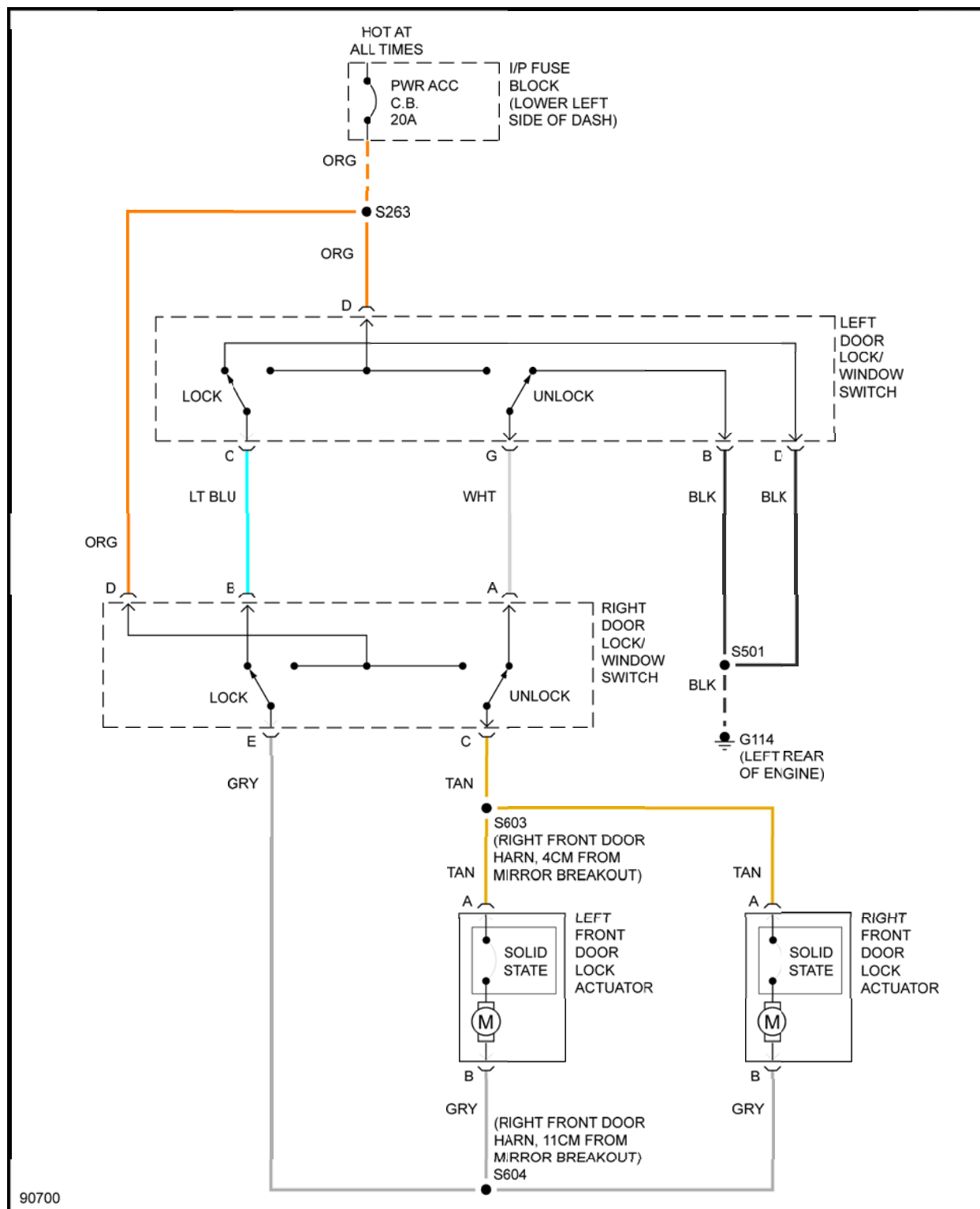


1997 Chevrolet S10 Pickup
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Fig. 4: Power Door Lock System Wiring Diagram (Blazer, Bravada & Jimmy)

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1997 Chevrolet S10 Pickup
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Fig. 5: Power Door Lock System Wiring Diagram (Sonoma & S10)